

We Claim:

1. An aqueous foamable concentrate comprising:

- 1) from about 2 to 14 percent by weight sodium decyl sulfate,
- 2) from about 2 to 14 percent by weight alkyl polyglycoside,
- 3) from about 2 to 18 percent by weight butyl carbitol, and
- 4) from about 0.2 to 2 percent by weight xanthan gum.

2. The aqueous foamable concentrate of claim 1 wherein the concentration of the sodium decyl sulfate is about 8 wt.% and the concentration of alkyl poly glycoside is about 8 wt.%.

3. The aqueous foamable concentrate of claim 1 wherein the concentration of butyl carbitol is about 10 wt.%.

4. The aqueous foamable concentrate of claim 1 wherein the concentration of xanthan gum is about 1.2 wt.% and the xanthan gum has an average molecular weight of about 2 million to 7 million.

5. An aqueous foamable concentrate comprising:

- 1) from about 2 to 14 percent by weight sodium decyl sulfate,
- 2) from about 2 to 14 percent by weight alkyl polyglycoside,
- 3) from about 2 to 18 percent by weight propylene glycol and

1 4) from about 0.2 to 2 percent by weight xanthan gum.

1 6. The aqueous foamable concentrate of claim 5 wherein the concentration of
2 sodium decyl sulfate is about 8 wt.% and the concentration of alkyl poly glycoside is
3 about 8 wt.%.

1 7. The aqueous foamable concentrate of claim 5 wherein the concentration of
2 propylene glycol is about 8 wt.%.

1 8. The aqueous foamable concentrate of claim 5 wherein the concentration of
2 xanthan gum is about 1.2 wt.% and the xanthan gum has an average molecular weight of
3 2 to 7 million.

1 9. An aqueous foamable concentrate comprising:

- 2 1) from about 4 to 20 wt.% sodium alpha olefin sulfonate,
3 2) from about 2 to 18 wt.% propylene glycol, and
4 3) from about 0.2 to 2 wt.% xanthan gum.

1 10. The aqueous foamable concentrate of claim 9 wherein the concentration of
2 sodium alpha olefin sulfonate is about 12.5 wt.%.

1 11. The aqueous foamable concentrate of claim 9 wherein the concentration of
2 propylene glycol is about 10. wt.%.

1 12. The aqueous foamable concentrate of claim 9 wherein the concentration of
2 xanthan gum is about 1.2 wt.% and the xanthan gum has an average molecular weight of
3 2 million to 7 million.

1 13. A method for treating a non-neutral pH hazardous material spill comprising:

- 2 1) providing an aqueous foamable concentrate comprising a foam-forming
3 agent, a foam stabilization polymer and a non-aqueous solvent;
4 2) foaming the aqueous foamable concentrate with non-neutral pH aqueous
5 liquid to produce a non-neutral pH foam; and
6 3) deploying the non-neutral pH foam over a non-neutral pH hazardous
7 material.
8
9
10

1 14. The method of claim 13 wherein the non-aqueous solvent of the foam concentrate
2 is selected from butyl carbitol, propylene glycol and mixtures thereof; the foam forming
3 agent is selected from alkyl polyglycoside, sodium alpha olefin sulfonate and sodium
4 decyl sulfate, and the foam-stabilizer polymer is a xanthan gum.

1 15. The method of claim 13 wherein the step of foaming employs non-neutral pH
2 aqueous liquid having pH less than about pH 4.5 to form an acidic foam, and the step of
3 foam deployment comprises deploying the acidic foam over a caustic hazardous material
4 spill.